

NOTEWORTHY PLANTS FROM NORTH FLORIDA. IV.

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ABSTRACT

The following appear to be first reports for the state of Florida: *Carex willdenowii* var. *megarrhyncha*, *Crepis pulchra*, *Galium obtusum*, *Gnaphalium helleri*, *Iris fulva*, *Polygala nuttallii*, and *Scutellaria thieretii* (mistakenly reported as *S. drummondii* in an earlier paper). Some additions to the Florida panhandle are documented here, and several significant range extensions, particularly for rare or endangered taxa within our area, are given.

This is the fourth installment of a series (Anderson 1984, 1986, 1988) to update our knowledge of the flora of the Florida panhandle and Clewell's guide (1985) to the flora. Carter (1988), Johnson and Blyth (1989), and Bridges et al. (1989) have also added new records from this region. The area of coverage is from the Suwannee River west to the Alabama state line.

New discoveries—i.e., taxa not listed by Clewell—and range extensions of selected rare or endemic species are given here. A few collections appear to be the first reports for Florida. Exotics that appear to be adventive or naturalized are also listed. Voucher specimens are at FSU unless noted otherwise.

The Apalachicola River region of Florida has long been noted for its unique flora (Gray 1875, Clewell 1977, Ward 1979) with many endemic or otherwise rare species (see Wood 1988 for officially listed endangered taxa in Florida). Through recent field surveys in this region by the author, A. K. Gholson, R. K. Godfrey, and W. W. Baker, many new sites have been found within the known ranges of endemics such as *Cuphea aspera* Chapm., *Euphorbia telephioides* Chapm., *Justicia crassifolia* (Chapm.) Small, *Macbridea alba* Chapm., and *Scutellaria floridana* Chapm. In addition, new county records are given here.

TAXA NEW TO THE AREA

ALLIUM NEAPOLITANUM Cyr. Franklin Co.: common in sparsely sodded lawns, Apalachicola, 5 Mar 1987, *L.C. Anderson 10311*; naturalized, new to Florida panhandle.

ASPARAGUS OFFICINALIS L. Escambia Co.: Pine Forest road, Pensa-

cola, 23 Apr 1986, *J.R. Burkhalter* 10298 (UWFP); Nine Mile Road, Pensacola, 16 May 1987, *J.R. Burkhalter* 10597 (UWFP); naturalized, new to Florida panhandle.

CAREX WILLDENOWII Schk. ex Willd. var. *MEGARRHYNCHA* E. J. Hermann. Gadsden Co.: 4.5 air mi SW of Chattahoochee on Apalachicola River, 21 Apr 1988, *L.C. Anderson* 11161; native, the variety (perigynia 9 mm long) new to Florida.

COREOPSIS TINCTORIA Nutt. Escambia Co.: near Pensacola, 2 Jun 1985, *J.R. Burkhalter* 9958. Leon Co.: roadside in Tallahassee, 25 May 1988, *L.C. Anderson* 11327. Madison Co.: I-10 SW of Madison, 5 Jul 1988, *D. H. Mead* 1001; naturalized from Alabama or farther west, new to Florida panhandle.

CREPIS PULCHRA L. Gadsden Co.: River Junction, S of Chattahoochee, 23 May 1982, *A.K. Gholson* 9752; native, new to Florida.

CUSCUTA UMBELLATA H.B.K. Franklin Co.: beside highway 98 near Ochlockonee Bay, 26 Aug 1988, *L.C. Anderson* 11795; native, new to Florida panhandle. The species is considered rare in peninsular Florida (Austin 1980).

CYRTOMIUM FALCATUM (L.f.) Presl. Washington Co.: limestone ledges of "Berry Sink" SE of Chipley, 26 Mar 1987, *A.K. Gholson* 11779, 8 Apr 1987, *R.K. Godfrey* 82320; naturalized, new to Florida panhandle.

DIGITARIA BICORNIS (Lamk.) R. & S. Escambia Co.: near University Mall sewage treatment plant, 4 Aug 1976, *J.R. Burkhalter* 4409 (FLAS). Wakulla Co.: edge of salt marsh E of Panacea, 22 Jul 1957, *R.K. Godfrey* 55630; native, new to Florida panhandle.

GALIUM OBTUSUM Bigelow var. *FILIFOLIUM* (Wieg.) Fern. Wakulla Co.: moist depression in longleaf pine remnant along hiway 98, 1.2 air mi NW of St. Marks, 11 Jun 1988, *L.C. Anderson* 11451; native, new to Florida.

GNAPHALIUM HELLERI Britt. Gadsden Co.: edge of woods E side of Chattahoochee, 24 Oct 1988, *A.K. Gholson* 12086 (Gholson Herbarium), *R.K. Godfrey* 82941; native, new to Florida.

IRIS FULVA Ker-Gawl. Santa Rosa Co.: Quinn Bayou, Milton, 6 Apr 1985, *G.S. Wilhelm & J.R. Burkhalter* 12565 (MOR); native, new to Florida.

IRIS × *GERMANICA* L. Jackson Co.: wet woodland 4 mi N of Mariana, 2 Apr 1983, *R.K. Godfrey* 80395; naturalized, new to Florida panhandle.

LUDWIGIA HEXAPETALA (Hook. & Arn.) Zardini & Peng. Santa Rosa Co.: canal E of Milton, 3 May 1967, *J.W. Wooten* 958. Walton Co.: flatwoods, 28 Jul 1938, *E.G. Hume s.n.* (FLAS); naturalized, new to

Florida panhandle. The specimens were previously misidentified as *L. uruguayensis* (Camb.) Hara, but the two species are distinct.

POLYGALA NUTTALLII T. & G. Wakulla Co.: cypress pond in Apalachicola Nat'l Forest, 3.7 mi W of Crawfordville, 9 Aug 1988; *R.K. Godfrey* 82798; native, new to Florida.

SCUTELLARIA DRUMMONDII Benth. Okaloosa Co.: adventive on railroad siding, Eglin Air Force Reservation, 17 Jul 1968, *D.B. Ward* 6711 (FLAS). This collection was documented by Wilhelm (1984); it is repeated here to avoid confusion with the next entry.

SCUTELLARIA THIERETII Shinnery. Columbia Co.: W of High Springs, 9 Apr 1982, *A.K. Gholson* 9521 (FLAS, FSU), 10 Apr 1983, *R.K. Godfrey* 80459 (indet. R. Kral); adventive, new to Florida. These collections were mistakenly reported as *S. drummondii* (Anderson 1984). The two species are closely related, and both are now known to occur in Florida.

RANGE EXTENSIONS IN THE APALACHICOLA RIVER REGION

ASCLEPIAS VIRIDULA Chapm. Bay Co.: savannah 4 mi N of Youngstown, 8 Aug 1988, *A.K. Gholson* 12019 (Gholson Herbarium).

ASTER SPINULOSUS Chapm. Bay Co.: E of Panama City, 9 Oct 1949, *S.C. Hood* 3267, 3275 (FLAS), 8.8 mi E of hiway 98 on rte 22, 12 Sep 1979, *W.S. Judd* 2318 (FLAS); pine plantation W of Sandy Creek, S of rte 22, 28 Jul 1988, *A.K. Gholson* 12006 (Gholson Herbarium). Franklin Co.: wiregrass-longleaf pine remnant 3.1 mi drive NW of Apalachicola, 29 Jul 1967, *J. Beckner* 1874 (FLAS), 24 Jun 1988, *L.C. Anderson* 11525; savannah near Huckleberry Creek, 5 air mi WNW of Apalachicola, 14 Jul 1988, *L.C. Anderson* 11627. This species is endemic to the Florida panhandle.

BAPTISIA SIMPLICIFOLIA Croom. Gadsden Co.: Quincy, 26 Jul 1935, *E. West s.n.* (FLAS). Liberty Co.: longleaf pineland 3 mi N of Wilma on rte 65, 25 Sep 1981, *R.K. Godfrey* 79518; wiregrass-pine woods ca. 4.5 air mi NW of Sumatra, 20 Sep 1983, *J.B. Nelson* 2949; junction forest roads 123 and 123C (NW of Sumatra), 7 Nov 1987, *P.W. Alcorn* 393 (FLAS); wet savannah 7 air mi NNW of Sumatra, 14 Sep 1988, *L.C. Anderson* 11828. This species is endemic to the Florida panhandle.

CUPHEA ASPERA Chapm. Calhoun Co.: flatwoods at Chipola Park on Dead Lake, 6 Jul 1988, *A. K. Gholson* (visual sighting, no voucher because of rareness here). This species is endemic to the Florida panhandle.

EUPHORBIA TELEPHIOIDES Chapm. Bay Co.: longleaf pine woods along highway 98 just N of Panama City Beach, 8 Aug 1988, *A.K. Gholson* 12021. This species is endemic to the Florida panhandle.

GENTIANA PENNELLIANA Fern. Bay Co.: 0.5 mi N hiway 98,

Panama City Beach, 30 Nov 1988, *A.F. Johnson & A. Blyth* 8221; Pringle (1967) cited a collection from Bay County. Calhoun Co.: 22 Dec 1938, *L.T. Nieland s.n.* (FLAS); Blountstown, 26 Jan 1939, *L.T. Nieland s.n.* (FLAS); Parker Wildlife Management Area near Chipola River, 29 Nov 1980, *A.K. Gholson* 8654. Franklin Co.: ca. 1.8 air mi SSW of Sumatra, 19 Jan 1985, *A.K. Gholson* 11189; Ft. Gadsden State Park, ca. 4.5 air mi SSW of Sumatra, 24 Jan 1986, *L.C. Anderson* 9092, 29 Jan 1987, *L.C. Anderson* 10295 (FLAS, FSU); boggy savannah just W of New River, 4 air mi WNW of Carrabelle, 26 Dec 1988, *L.C. Anderson* 11897. This species is endemic to the Florida panhandle.

LIATRIS SQUARROSA (L.) Michx. Gadsden Co.: calcareous glade S of hiway 90 on E side of Chattahoochee, 29 Jul 1988, *A.K. Gholson* 12007 (Gholson Herbarium). This is first known population in Florida panhandle E of Apalachicola River.

MACBRIDEA ALBA Chapm. Liberty Co.: wet pine savannah 4 mi NW of Sumatra, 16 Jul 1978, *R.K. Godfrey* 76619; 3 mi NW of Sumatra on forest road 106, 30 Jun 1984, *A.K. Gholson* 10968 (FLAS, FSU). This species is endemic to the Florida panhandle.

RHEXIA PARVIFLORA Chapm. Bay Co.: 0.2 mi S of rte 22 near Gulf County line, 1 Aug 1988, *A.K. Gholson* 12011. Calhoun Co.: rte 71, 3 mi SW of Chipola River, 29 Jun 1988, *R.K. Godfrey* 82748. Gulf Co.: rte 387, ca. 3.5 air mi ENE of White City, 5 Jul 1988, *L.C. Anderson* 11565. Bounds (1987) indicates this species is the rarest in the genus; it is listed as endangered in Florida (Wood 1988).

RUDBECKIA NITIDA Nutt. Gulf Co.: pine plantation E of Old Parkwood Tramroad, ca. 6 air mi NNE of Port St. Joe, 23 Jun 1988, *L.C. Anderson* 11504.

SALVIA URTICIFOLIA L. Gadsden Co.: edge of limestone glade, ca. 1.5 air mi SW of Chattahoochee, 12 Sep 1985, *A.K. Gholson* 11489, 1 Apr 1986, *L.C. Anderson* 9197.

SCUTELLARIA FLORIDANA Chapm. Franklin Co.: flatwoods 3.3 air mi SSE of Sumatra, 21 Jul 1987, *A.K. Gholson* 11859 (Gholson Herbarium). Liberty Co.: wet savannah 7 air mi NW of Sumatra, 11 Jun 1987, *A.K. Gholson* 11838, 17 Jun 1987, *A.K. Gholson* 11839. This species is endemic to the Florida panhandle.

SORGHASTRUM APALACHICOLENSE Hall. Gulf Co.: E of rte 71 in slashpine woods, 3 mi N of Wewahitchka, 16 Aug 1983, *R.K. Godfrey* 80904 (FLAS, FSU), 23 Jul 1986, *R.K. Godfrey* 82060; 2.4 mi N of rte 22, ca. 11 air mi WNW of Wewahitchka, 23 Aug 1988, *L.C. Anderson* 11778. This species was thought to be endemic to the Florida panhandle

until it was found in Mississippi (Lamar Co.: 1 mi NW of Talowah, 28 Aug 1982, *S. McDaniel* 26434).

SPIGELIA GENTIANOIDES Chapm. Calhoun Co.: oak pine clay upland, 8 mi N of Wewahitchka, 19 Jul 1954, *E.S. Ford* 3331 (FLAS); longleaf pinewoods ca. 5.5 air mi S of Clarksville near Juniper Creek, 20 Jul 1988, *A.K. Gholson* 11996 (Gholson Herbarium). Washington Co.: Chipley, 4 Jul 1940, *C.E. Pleas s.n.* (FLAS), 3 Jul 1941, *C.E. Pleas s.n.* (FLAS). This species is endemic to the Florida panhandle.

STACHYDEOMA GRAVEOLENS (Chapm.) Small. Franklin Co.: wiregrass-longleaf pine ridge near Hickory Landing, ca. 2.7 air mi SW of Sumatra, 1 Sep 1980, *R.K. Godfrey* 78071, 16 Sep 1985, *A.K. Gholson* 11498; near Wright Lake, ca. 2 air mi SW of Sumatra, 29 Sep 1983, *J.B. Nelson* 3039. Gulf Co.: wiregrass-longleaf pine woods 1.2 mi S of rte 22, ca. 3 air mi W of Wewahitchka, 1 Jun 1989, *L.C. Anderson* 12015. Wakulla Co.: near Pine Creek Landing of Ochlockonee River, 20 Sep 1987, *M.A. Garland* 580 (FLAS, FSU). This monotypic genus is endemic to the Florida panhandle. The species was once considered part of *Hedeoma* (see Irving 1980 for review); Clewell (1985) and Wood (1988) list the species under the latter.

VERBESINA CHAPMANII Coleman. Franklin Co.: wooded savannah 9 air mi NNE of Apalachicola along rte 65, 14 Sep 1983, *J.B. Nelson* 2912 (FLAS, FSU); 4 air mi SSW of Sumatra beside road to Ft. Gadsden, 14 Sep 1983, *J.B. Nelson* 2934; 8.5 air mi NNE of Apalachicola at railroad crossing, 21 Jun 1985, *L.C. Anderson* 8336 (FLAS, FSU); near East River 7.5 air mi N of Apalachicola, 30 Jun 1988, *L.C. Anderson* 11539. This species is endemic to the Florida panhandle; several earlier collections from Bay and Walton Counties are at FSU (apparently overlooked by Clewell).

XYRIS ISOETIFOLIA Kral. Gulf Co.: E side of logging road 1.3 mi N of rte 22, ca. 10 air mi E of Callaway, 2 Aug 1988, *L.C. Anderson* 11713, 23 Aug 1988, *L.C. Anderson* 11776. This endemic was previously known only from two sites in Bay County and one in Washington County (Kral 1966, p. 214) but erroneously listed from Gulf County (Kral 1966, p. 227; Clewell 1985).

ADDITIONAL RANGE EXTENSIONS

Wilhelm (1984) reported the following four species for the western part of the Florida panhandle based on his collections or those of J.R. Burkhalter that were not listed by Clewell (1985). They have been found elsewhere in our region; citations (excluding those of Wilhelm and Burkhalter) follow.

ANAGALLIS ARVENSIS L. Calhoun Co.: 1.2 mi S of Blountstown, 4 Jul 1978, A.K. Gholson 7225 (FLAS), R.K. Godfrey 76588 (FLAS, FSU).

CLEMATIS VIRGINIANA L. Jefferson Co.: Wacissa Springs, 6 Sep 1982, R.K. Godfrey 79947 (FLAS, FSU), 26 Nov 1987, R.K. Godfrey 82638 (FLAS, FSU). Washington Co.: limestone ledges of "Berry Sink" SE of Chipley, 8 Apr 1987, R.K. Godfrey 82319.

MITRACARPUS HIRTUS (L.) DC. Bay Co.: rte 22 at Cook's Bayou, 28 Sep 1983, J.B. Nelson 3020. Calhoun Co.: near Apalachicola River, N of Blountstown, 19 Aug 1988, R.K. Godfrey 82808. Santa Rosa Co.: I-10 at highway 281, L.E. Brown 13062 (SBSC); 15 mi E of Jay, 8 Dec 1978, J. Spears s.n. (FLAS, FSU), Milton, 13 Sep 1988, L. S. Dunavin s.n. (FLAS). Wakulla Co.: rte 365 at Wakulla, 18 Sep 1983, R.K. Godfrey 80976.

POA CHAPMANIANA Scribn. Gadsden Co.: Chattahoochee, 2 Apr 1988, A.K. Gholson 11936 (FLAS), R.K. Godfrey 82644 (FLAS, FSU). Leon Co.: near Capitola, 24 Apr 1988, R.K. Godfrey 82648.

ASPLENIUM HETERORESILIENS Wagner. Washington Co.: limestone walls of Cedar Grove Sink, S of Chipley, 26 Mar 1987, A.K. Gholson 11778 (Gholson Herbarium), 8 Apr 1987, A.K. Gholson 11781 (FLAS). This is a westward extension of range for this stabilized hybrid.

ELYONURUS TRIPSACOIDES Humb. & Bonpl. ex Willd. Gadsden Co.: calcareous glade S of hiway 90 on E side of Chattahoochee, 20 Oct 1988, A.K. Gholson 12085 (Gholson Herbarium). All other known populations of this species in the Florida panhandle are coastal.

The following were listed by Clewell (1985) for one county but have been found in one or more additional counties as noted:

BROMUS PUBESCENS Muhl. ex Willd. Gadsden Co.: bluff above Apalachicola River floodplain, WSW of Chattahoochee, 22 May 1982, R.K. Godfrey 79821 (FLAS, FSU); edge of limestone glade, ca. 1.5 air mi SW of Chattahoochee, 9 May 1987, L.C. Anderson 10488; steep calcareous slope S of River Junction, 8 May 1982, A.K. Gholson 9681 (FLAS), 8 May 1988, A.K. Gholson 11970 (Gholson Herbarium).

HYDRANGEA ARBORESCENS L. Walton Co.: steep slopes of upper Hughes Ditch, 2.5 air mi SW of Ponce de Leon, 29 Apr 1987, A.K. Gholson 11801 (FLAS), R.K. Godfrey 82362.

PANICUM FLEXILE (Gattinger) Scribn. Gadsden Co.: limestone glade, 2.5 air mi SW of Chattahoochee, 19 Oct 1985, A.K. Gholson 11519 (FLAS, FSU); glade ca. 2.0 air mi SW of Chattahoochee, 4 Oct 1987, R.K. Godfrey 82564 (FLAS, FSU); Brickyard Glade, 0.5 mi SW of Chattahoochee, 2 Oct 1987, A.K. Gholson 11899 (FLAS), 4 Oct 1987, R.K. Godfrey 82568 (FLAS, FSU); glade E of Chattahoochee, 20 Oct 1988, A.K. Gholson 12076 (Gholson Herbarium).

PTERIS VITTATA L. Gulf Co.: stabilized sand and shell cliffs bordering Gulf County Canal ca. 4.5 air mi NNE of Port St. Joe, 23 Jun 1988, L.C. Anderson 11497; Wilhelm (1984) reported this species for Escambia County.

SPIRANTHES LONGILABRIS Lindl. Escambia Co.: near Liberty Bible College, SW of Pensacola, 27 Oct 1985, J.R. Burkhalter 10237. Liberty Co.: savannah E of rte 379, 0.4 mi S of forest road 123, 16 Nov 1988, A.K. Gholson 12097 (Gholson Herbarium). Santa Rosa Co.: edge of wiregrass savannah S of Avalon Beach, 16 Nov 1985, J.R. Burkhalter 10267; wet savannah S of Milton adjacent to East Bay, 4 Dec 1986, A.K. Gholson 11759 (Gholson Herbarium).

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